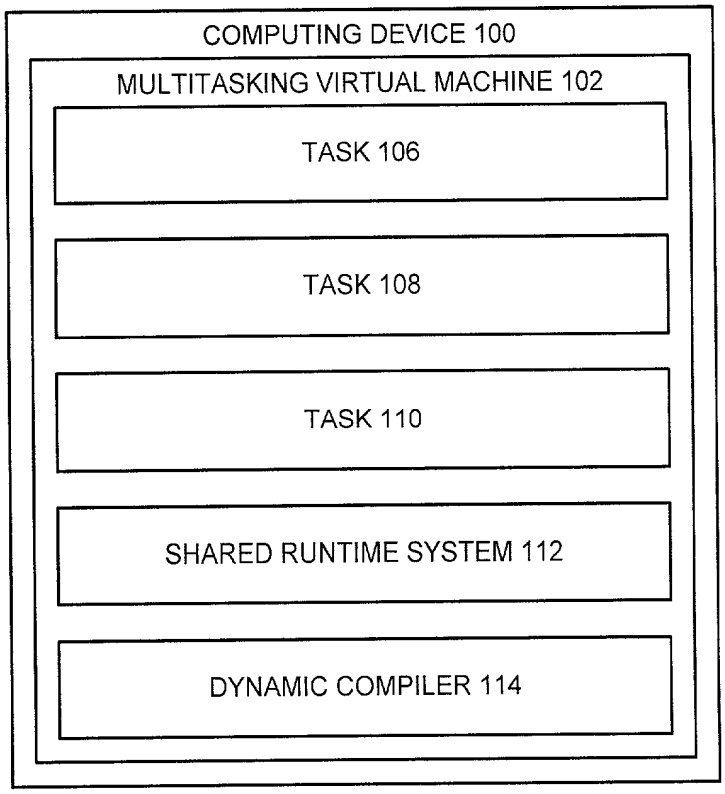
COMPUTING DEVICE 100
MULTITASKING VIRTUAL MACHINE 102
TASK 106
TASK 108
TASK 110
SHARED RUNTIME SYSTEM 112
DYNAMIC COMPILER 114

FIG. 1

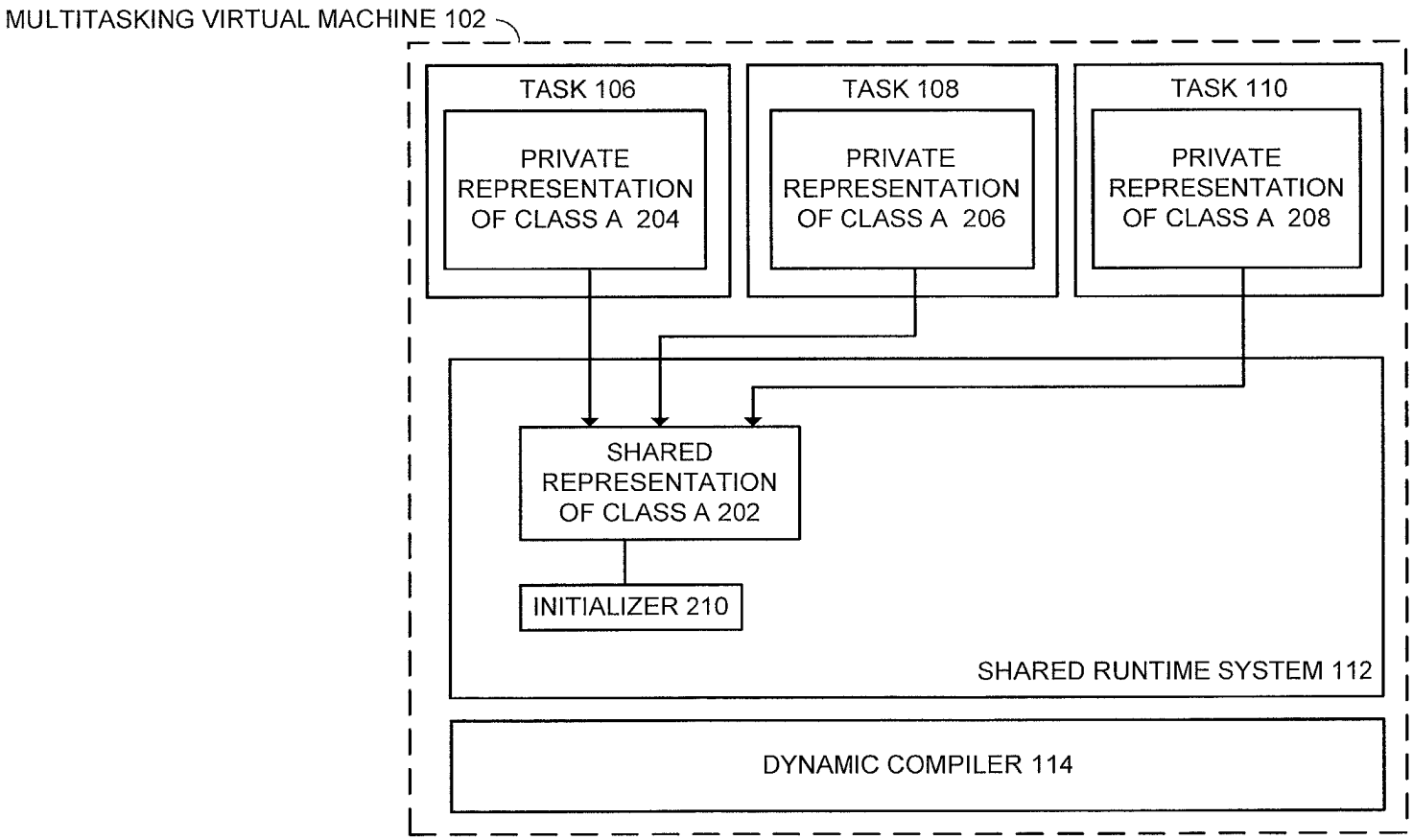
MULTITASKING VIRTUAL MACHINE 102
TASK 106
PRIVATE REPRESENTATION OF CLASS A 204
TASK 108
PRIVATE REPRESENTATION OF CLASS A 206
TASK 110
PRIVATE REPRESENTATION OF CLASS A 208
SHARED REPRESENTATION OF CLASS A 202
INITIALIZER 210
SHARED RUNTIME SYSTEM 112
DYNAMIC COMPILER 114

FIG. 2

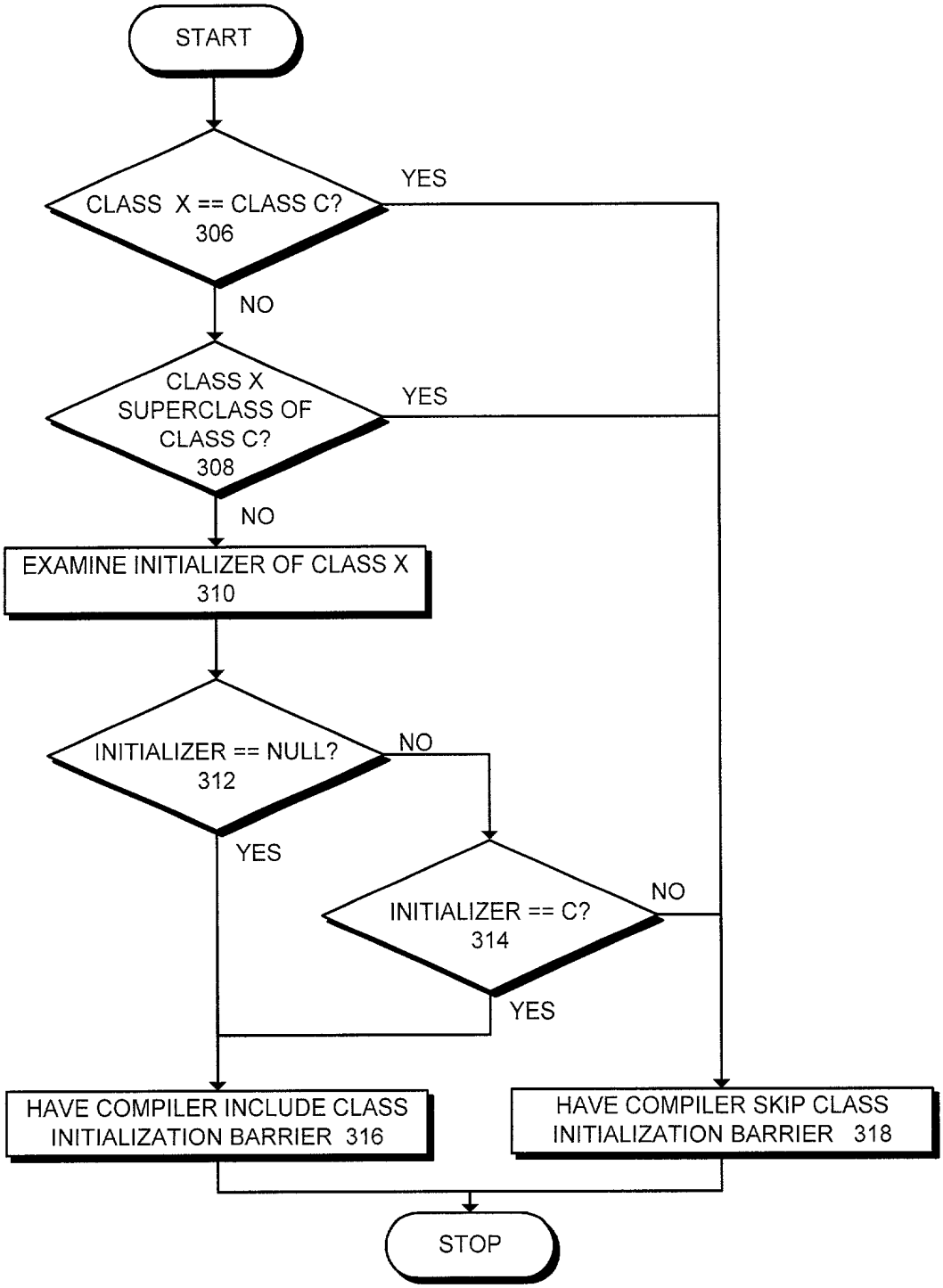
START
CLASS X == CLASS C?
306
YES
NO
CLASS X
SUPERCLASS OF
CLASS C?
308
YES
NO
EXAMINE INITIALIZER OF CLASS X
310
INITIALIZER == NULL?
312
NO
YES
INITIALIZER == C?
314
NO
YES
HAVE COMPILER INCLUDE CLASS
INITIALIZATION BARRIER 316
HAVE COMPILER SKIP CLASS
INITIALIZATION BARRIER 318
STOP

FIG. 3

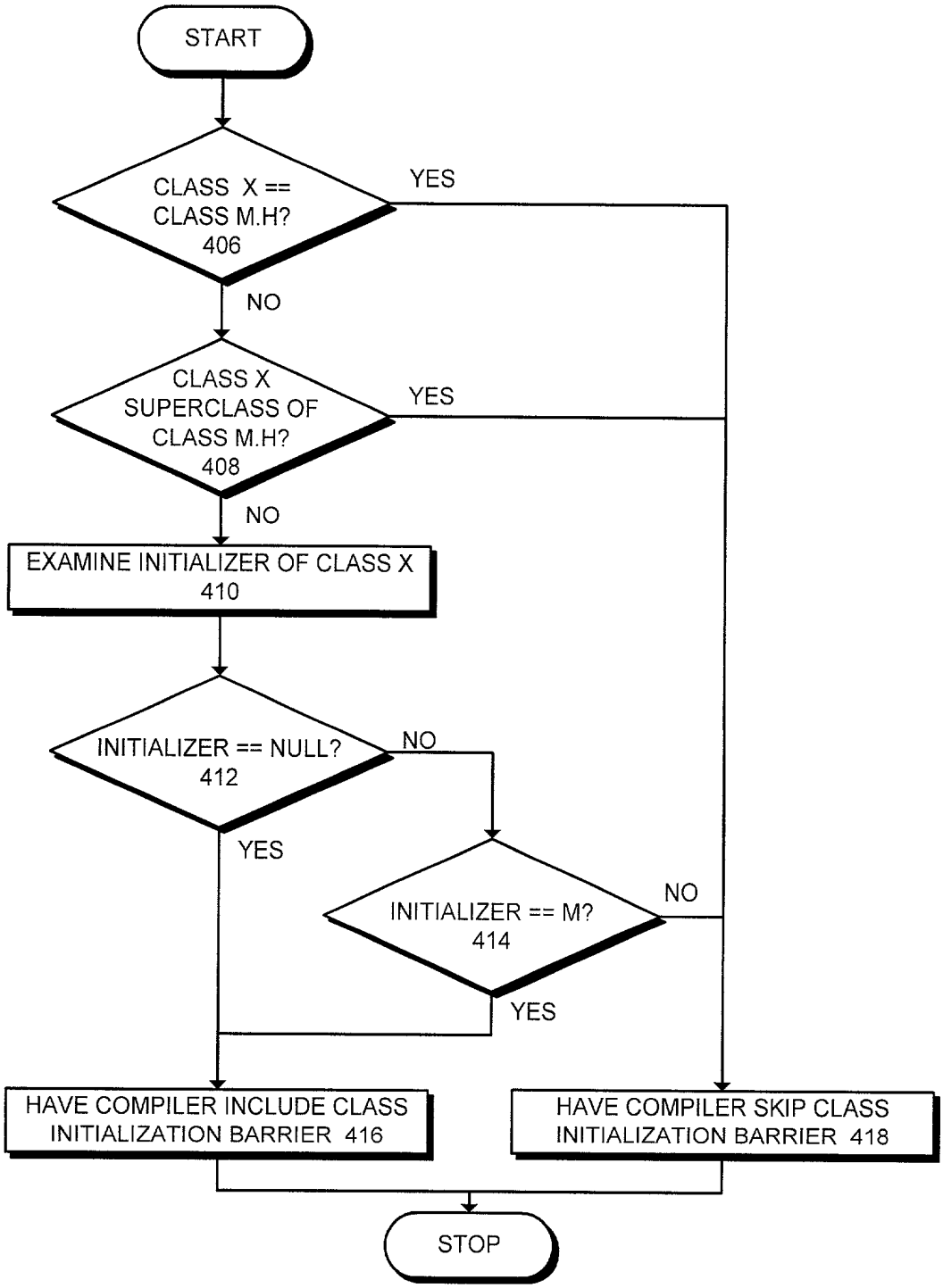
START
CLASS X == CLASS M.H? 406
YES
NO
CLASS X SUPERCLASS OF CLASS M.H? 408
YES
NO
EXAMINE INITIALIZER OF CLASS X 410
INITIALIZER == NULL? 412
NO
YES
INITIALIZER == M? 414
NO
YES
HAVE COMPILER INCLUDE CLASS INITIALIZATION BARRIER 416
HAVE COMPILER SKIP CLASS INITIALIZATION BARRIER 418
STOP

FIG. 4